The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.

Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information							41-48-03 =	086-14-53 = -
Michigan [26]	Berrien County [021]		Bertrand [07920] 0.8 MI S OF NILES		41.800833	86.248056		
11111101000S013	Highway agenc	y district 5	Owner State Highway Agency [01] Maintenance responsibility		State Highway Ag	ency [01]		
Route 12	US-12	EB	Toll On fre	ee road [3]	Features intersed	cted M-51		
Design - Steel [3] main Stringer/Multi	-beam or girder [02]	Design - approach Other	[00]	Kilometerpoint Year built 195 Skew angle 0 Historical signific	Structure F	constructed N/A	[0000] he NRHP. [5]	
				t-to-out 11.8 m = 38.	7 ft Bridge road		0 m = 0.0 ft	
Type of wearing surface Deck protection Concrete Cast-in-Place Monolithic Concrete (concrete)			ce [1] concurrently placed with str	uctural deck) [1]				
Type of membrane/wear	ring surface							
Weight Limits								
Bypass, detour length 0 km = 0.0 mi	inctriod to determine inventory rating		Load Factor(LF) [1] Load Factor(LF) [1]		Inventory rating Operating rating	52.7 metric ton 87.9 metric ton		
Bridge posting Equal to or above legal loads [5]			egal loads [5]		Design Load MS	18 / HS 20 [5]		

Functional Details						
Average Daily Traffic 6404 Average daily tr	uck traffi 9 % Year 2007 Future average daily traffic 11300 Year 2018					
Road classification Other Principal Arterial (Urban)	[14] Lanes on structure 2 Approach roadway width 9.8 m = 32.2 ft					
Type of service on bridge Highway [1]	Direction of traffic 1 - way traffic [1] Bridge median					
Parallel structure designation The right structure	of parallel bridges carrying the roadway in the direction of the inventory. [R]					
Type of service under bridge Highway, with or without	ut ped Lanes under structure 5 Navigation control Not applicable, no waterway. [N]					
Navigation vertical clearanc 0 = N/A	Navigation horizontal clearance 0 = N/A					
Minimum navigation vertical clearance, vertical lift brid	Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft					
Minimum lateral underclearance reference feature H	ghway beneath structure [H]					
Minimum lateral underclearance on right 0 = N/A	Minimum lateral underclearance on left 0 = N/A					
Minimum Vertical Underclearance 4.29 m = 14.1 ft Minimum vertical underclearance reference feature Highway beneath structure [H]						
Appraisal ratings - underclearances Basically intolerable requiring high priority of corrrective action [3]						
Repair and Replacement Plans						
Type of work to be performed	Work done by Work to be done by contract [1]					
Bridge deck replacement with only incidental widening. [37]	Bridge improvement cost 233000 Roadway improvement cost 6000					
widening. [67]	Length of structure improvement 47.9 m = 157.2 ft Total project cost 70000					
	Year of improvement cost estimate					
	Border bridge - state Border bridge - percent responsibility of other state					
	Border bridge - structure number					

Inspection and Sufficiency						
Structure status Open, no res	triction [A]	Appraisal ratings - structural	Equal to present minimum criteria [6]			
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]			
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings -	Somewhat better than minimum adequacy to tolerate being left in pl is [5]			
Condition ratings - deck	Fair [5]	deck geometry	15 [0]			
Scour Bridge not		erway. [N]				
Channel and channel protection	Not applicable. [N]					
Appraisal ratings - water adequac	y N/A [N]		Status evaluation	Functionally obsolete [2]		
Pier or abutment protection			Sufficiency rating	94		
Culverts Not applicable. Used i	f structure is not a culvert.	[N]				
Traffic safety features - railings		pected feature meets currently accep				
Traffic safety features - transition		-	eature meets currently acceptable standards. [1]			
Traffic safety features - approach	guardrail Inp	pected feature meets currently accept	ature meets currently acceptable standards. [1]			
Traffic safety features - approach	guardrail ends Inp	pected feature meets currently accep	ature meets currently acceptable standards. [1]			
Inspection date May 2008 [0508] Designated inspection frequency 24 Months						
Underwater inspection	Not needed [N]	Underwater inspec	ction date			
Fracture critical inspection Not needed [N]		Fracture critical ins	Fracture critical inspection date			
Other special inspection	Not needed [N]	Other special inspe	ection date			

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Basic Information		4.	1-48-04 = 086-14-53 = -		
Michigan [26] Berrien County [021]	Bertrand [07920] 0.8 MI S OF NILES		1.801111 86.248056		
11111101000S014 Highway agency district 5	Owner State Highway Agency [01]	Maintenance responsibility State	e Highway Agency [01]		
Route 12 US-12 WB	Toll On free road [3]	Features intersected M-51			
Design - main Steel [3] Design - approach Stringer/Multi-beam or girder [02] 0 Otto	Kilometerpoint Year built 1959 Skew angle 0 Historical signific	Structure Flared	HP. [5]		
Total length 47.8 m = 156.8 ft Length of maximum	span 24 m = 78.7 ft Deck width, ou	t-to-out 11.8 m = 38.7 ft Bridge roadway wi	idth, curb-to-curb 10.1 m = 33.1 ft		
Inventory Route, Total Horizontal Clearance 10.1 m = 33.1	Curb or sidewalk width - left 0 m =	0.0 ft Curb or sidewalk wi	idth - right 0 m = 0.0 ft		
Deck structure type Concrete Cast-in-	Place [1]				
Type of wearing surface Monolithic Concre	e (concurrently placed with structural deck) [1]				
Deck protection					
Type of membrane/wearing surface					
Weight Limits					
Bypass, detour length 0 km = 0.0 mi Method to determine inventory rational Method to determine operating rational Method to determine inventory rational Method to determine operating rational Method to determine inventory rational Method to determine	, , , , ,	Inventory rating 38.2 metric ton = 42.0 to 52.7 metric ton = 58.0 to			
Bridge posting Equal to or above		Design Load MS 18 / HS 20 [5]			

Functional Details						
Average Daily Traffic 6404 Average daily tr	uck traffi 9 % Year 2007 Future average daily traffic 11300 Year 2018					
Road classification Other Principal Arterial (Urban)	[14] Lanes on structure 2 Approach roadway width 9.8 m = 32.2 ft					
Type of service on bridge Highway [1]	Direction of traffic 1 - way traffic [1] Bridge median					
Parallel structure designation The left structure of	parallel bridges. This structure carries traffic in the opposite direction. [L]					
Type of service under bridge Highway, with or without	ut ped Lanes under structure 5 Navigation control Not applicable, no waterway. [N]					
Navigation vertical clearanc 0 = N/A	Navigation horizontal clearance 0 = N/A					
Minimum navigation vertical clearance, vertical lift bri	Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft					
Minimum lateral underclearance reference feature H	ghway beneath structure [H]					
Minimum lateral underclearance on right 0 = N/A	Minimum lateral underclearance on left 0 = N/A					
Minimum Vertical Underclearance 4.57 m = 15.0 ft	Minimum vertical underclearance reference feature Highway beneath structure [H]					
Appraisal ratings - underclearances Basically intolerable requiring high priority of corrrective action [3]						
Repair and Replacement Plans						
Type of work to be performed	Work done by Work to be done by contract [1]					
Bridge deck replacement with only incidental widening. [37]	Bridge improvement cost 233000 Roadway improvement cost 6000					
wideling. [57]	Length of structure improvement 47.9 m = 157.2 ft Total project cost 70000					
	Year of improvement cost estimate					
	Border bridge - state Border bridge - percent responsibility of other state					
	Border bridge - structure number					

Inspection and Sufficiency						
Structure status Open, no res	striction [A]	Appraisal ratings - structural	Equal to present minimum criteria [6] Equal to present minimum criteria [6]			
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment				
Condition ratings - substructure	Good [7]	Appraisal ratings -	Somewhat better than minimum adequacy to tolerate being left in place as is [5]			
Condition ratings - deck	Fair [5]	deck geometry				
Scour	Bridge not over waterway. [N]	Bridge not over waterway. [N]				
Channel and channel protection	Not applicable. [N]					
Appraisal ratings - water adequad	N/A [N]		Status evaluation	Functionally obsolete [2]		
Pier or abutment protection			Sufficiency rating	94		
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Culverts Not applicable. Used	if structure is not a culvert. [N]					
Traffic safety features - railings Inpected feature meets currently acceptable standards. [1]						
Traffic safety features - transition		ture meets currently acce	-			
Traffic safety features - approach	n guardrail Inpected fea	ure meets currently acceptable standards. [1]				
Traffic safety features - approach guardrail ends Inpected		ture meets currently acce				
Inspection date May 2008 [0508] Designated inspection frequency 24 Months						
Underwater inspection Not needed [N]		Underwater inspec				
·	Not needed [N]	Fracture critical inspection date				
Other special inspection	Not needed [N]	Other special insp	ection date			